

SYNERGY 63 WG

Version 7

Revision Date 28.09.2009

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT INFORMATION

Product name : SYNERGY 63 WG
Design code : A9772B
Use : Herbicide
Company : Syngenta Crop Protection AG
 Postfach
 CH-4002 Basel
 Switzerland
Telephone : +41 61 323 11 11
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Irritant

2. HAZARDS IDENTIFICATION

May be harmful if swallowed or in contact with skin.
 Causes serious eye irritation.
 Harmful to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Chemical Name | CAS-No. | EC-No. (REACH Regis- tration Number) | Symbol(s) | R-phrase(s) | Concentration |
|----------------|--|--|-----------|-------------|------------------------|
| triasulfuron | 82097-50-5 | | N | R50/53 | 3 % W/W |
| dicamba-sodium | 1982-69-0 | 217-846-3 | | R52/53 | 60 % W/W |
| silica | 91053-39-3, 68855-54-9, 61790-53-2, 7631-86-9 | 293-303-4 | | | >= 10 - <= 25 % W/W |

* Substances for which there are Community workplace exposure limits.
 For the full text of the R-phrases mentioned in this Section, see Section 16.

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4. FIRST AID MEASURES

- General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
- Medical advice** : There is no specific antidote available.
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray
- Extinguishing media which shall not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting** : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.
- Further information** : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.
Avoid dust formation.
- Environmental precautions** : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
Do not create a powder cloud by using a brush or compressed air.
Clean contaminated surface thoroughly.
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE**HANDLING**

- Advice on safe handling** : No special protective measures against fire required.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.

STORAGE

- Requirements for storage areas and containers** : No special storage conditions required.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children.
Keep away from food, drink and animal feedingstuffs.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | Exposure limit(s) | Type of exposure limit | Source |
|--------------|--|--|---|
| triasulfuron | 3 mg/m ³ | 8 h TWA | SYNGENTA |
| silica | 4 mg/m ³ 4 mg/m ³ 10 mg/m ³ 3,000 ppm 1.2 mg/m ³ Respirable dust | 8 h TWA 8 h TWA 8 h TWA IDLH 8 h TWA | DFG SUVA ACGIH NIOSH UK HSE |
| dicamba | 10 mg/m ³ | 8 h TWA | SYNGENTA |

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne dust is generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.
Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Chemical resistant gloves are not usually required.
Select gloves based on the physical job requirements.
- Eye protection** : If eye contact is possible, use tight-fitting chemical safety goggles.
- Skin and body protection** : No special protective equipment required.
Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : solid
Form : granules
Colour : grey beige to brown

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| | |
|----------------------------------|-----------------------------|
| pH | : 6 - 10 at 1 % w/v |
| Flammability (solid, gas) | : not highly flammable |
| Oxidizing properties | : not oxidizing |
| Explosive properties | : Not explosive |
| Bulk density | : 0.64 g/cm ³ |
| Surface tension | : 57.5 - 63.7 mN/m at 20 °C |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Hazardous decomposition products | : Combustion or thermal decomposition will evolve toxic and irritant vapors. |
| Hazardous reactions | : None known. Hazardous polymerisation does not occur. Stable under normal conditions. |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute oral toxicity | : LD50 Rat, > 2,000 mg/kg GHS-Classification Category 5 |
| Acute dermal toxicity | : LD50 Rat, > 2,000 mg/kg GHS-Classification Category 5 |
| Skin irritation | : Rabbit: Non-irritating GHS-Classification None |
| Eye irritation | : Rabbit: Irritant GHS-Classification Category 2A |
| Sensitisation | : guinea pig: not sensitizing GHS-Classification None |
| Long term toxicity triasulfuron | : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments. |
| dicamba-sodium | : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments. |

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12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Stability in water

- triasulfuron : Degradation half life: ca. 210 d
Triasulfuron is persistent in water.
- dicamba-sodium : Degradation half life: 35 - 46 d
Dicamba is not persistent in water.

Stability in soil

- triasulfuron : Degradation half life : 3 - 83 d
Triasulfuron is not persistent in soil.
- dicamba-sodium : Degradation half life : 1.4 - 11 d
Dicamba is not persistent in soil.

Mobility

- triasulfuron : Triasulfuron has medium mobility in soil.
- dicamba-sodium : Dicamba has very high mobility in soil

Bioaccumulation

- triasulfuron : Triasulfuron has low potential for bioaccumulation.
- dicamba-sodium : Dicamba has low potential for bioaccumulation.

ECOTOXICITY EFFECTS

- Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), > 100 mg/l , 96 h
GHS-Classification
None

- Toxicity to daphnia and other aquatic invertebrates.** : EC50 *Daphnia magna* (Water flea), > 102 mg/l , 48 h
GHS-Classification
None

- Toxicity to algae** : ErC50 *Pseudokirchneriella subcapitata* (green algae), 10.4 mg/l , 72 h
GHS-Classification
Category 3

13. DISPOSAL CONSIDERATIONS

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

- Contaminated packaging** : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling

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site for recycling or disposal.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

Land transport

ADR:

Not dangerous goods

Sea transport

IMDG:

Not dangerous goods

Air transport

IATA-DGR:

Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

| | | |
|--|--|---|
| Symbol(s) | : Xi | Irritant |
| R-phrases(s) | : R36 R52/53 | Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrases(s) | : S 2 S13 S20/21 S35 S57 | Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination. |
| Note | : The mixture is classified as dangerous in accordance with Directive 1999/45/EC. | |
| Special labelling of certain mixtures | : To avoid risks to man and the environment, comply with the instructions for use. | |

GHS-Labelling

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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Pictogram



| | | |
|---------------------------------|---|--|
| Signal word | : | Warning |
| Hazard statements | : | H303 + H313 May be harmful if swallowed or in contact with skin. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves and eye/face protection. |
| Remarks | : | Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories. |

Hazardous components which must be listed on the label:

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3:

| | |
|---------------|--|
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

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